

Memo/Reply From  
JOSHUA LEDERBERG

TO: Dr Roland Hjerpe  
Royal Inst. Technology  
Library  
S10044 Stockholm  
70 Sweden.

History of bibliometrics.

Did you intentionally omit  
reference to Saxton; or did  
I merely miss it?

But thank you for a most  
useful review.

Joshua Lederberg

mfu



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MAR 1 1979

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### Bibliometrics and Citation Analysis

Roland Hjerpe in An Outline of  
Bibliometrics & Citation Analysis.  
Stockholm, Sweden: Royal Institute of  
Technology Library. Oct 78. 82 p.  
[pd 0705d]

... "Quantitative analyses of scientific  
literature and especially citation networks  
have been used to illuminate many  
aspects of science and research. Studies of  
this type, formerly called 'statistical  
bibliography,' are now described by the  
term 'bibliometrics.' The purpose of this  
paper is to provide a survey of  
bibliometrics.... The completely  
dominating sources of data for  
bibliometric studies are the Science Cita-  
tion Index® (SCI®) and the Social  
Sciences Citation Index™ (SSCI™),  
published since 1961 and 1969 respectively  
by the Institute for Scientific Information®  
(ISI®). An Arts & Humanities Citation In-  
dex™ (A&HCI™) was introduced in  
1978." The author discusses the methods,  
terms, laws, literature and uses of  
bibliometrics, commenting: "There is a  
pressing need to know more about the ac-  
curacy, the pertinence and selection  
criteria of references within disciplines  
and across them. Why is a researcher in  
bio-medicine providing three times more  
references than one in mathematics or  
engineering? Is that 'habitual' difference  
based on functional need or socio-cultural  
pressure?"